Hardware Fact Sheet

IBM
Personal
Computer

IBM

The IBM Personal Computer is a versatile, ready-to-run computer that can be used at work, in school or at home. This affordable, easily expandable system offers a broad range of capabilities to meet various business, education, professional, word processing, entertainment and personal needs.

Features. Advanced hardware design features include:

- High-speed, 16-bit microprocessor
- Up to 262,144 characters (256KB) of user memory (16,384 standard)
- Adjustable 83-key detached keyboard
- A high-resolution IBM Monochrome Display for text information, with an anti-glare screen, green phosphor characters for reading comfort, and controls for brightness and contrast
- A versatile IBM Matrix Printer that can print in two directions at up to 80 characters per second (12 character styles available)
- Video buffers contained on video adapters that do not reduce user memory
- Built-in time-of-day clock
- Diagnostic capabilities that automatically check the system components– including power-on self-test and parity checking
- 40KB read-only memory standard, includes easy-to-use BASIC language

Color/Graphics. The IBM Personal Computer can provide users with a text system capable of displaying 256 different characters in any of 16 foreground and 8 background colors, in 40 or 80 columns, upper and lower cases. It is also capable of displaying graphics in four colors on a color monitor or color television set* in 320 H x 200 V, and in 640 H x 200 V black-and-white (on a monitor only).

*Color monitors and color television sets are not part of the IBM Personal Computer offering and must be purchased separately.

Performance. Operating at speeds measured in millionths of a second, the IBM Personal Computer can:
- Generate and display charts, graphs, text and numerical information
- Run business applications–including accounts receivable and word processing–on the same system with applications covering personal finance and home entertainment.

Service. The IBM Personal Computer comes with a 90-day warranty. IBM and a nationwide network of authorized IBM Personal Computer dealers will provide the high standards of warranty service associated with all IBM products. Post warranty service will also be offered by IBM and participating authorized dealers.

Compact size. The system unit is only 20"x 16"x 5.5" and contains a built-in speaker for audio and music applications. This unit also has space for one or two optional diskette drives, as well as room for additional memory and/or other options.
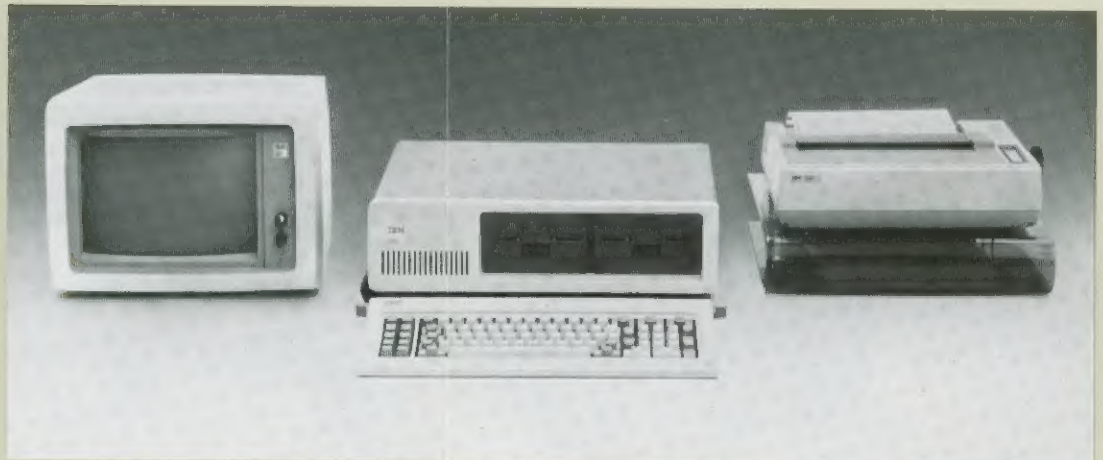
Expandability. A starter system consisting of a keyboard and system unit can be connected to a black-and-white or color television set using an RF modulator (must be purchased separately).

It can be expanded to include its own display, printer and auxiliary storage cassettes or diskettes, as well as additional memory. An Asynchronous Communications Adapter enables your IBM Personal Computer to communicate with other computers. Using this capability, information from centralized data services such as the Dow Jones™ News/Retrieval Service (a product of Dow Jones & Company, Inc.) and THE SOURCE, America's Information Utility (a product of Source Telecomputing Corporation) can be accessed and displayed.

The next step

See your authorized IBM Personal Computer dealer for more information on the hardware products available with this versatile computer.

Your dealer can also give you information on system software–including the IBM Personal Computer Disk Operating System (DOS) with Disk BASIC and Advanced BASIC. Plus, the broad range of application program packages that have been carefully selected by IBM to help you get the most out of your personal computer investment. These software packages can help you meet a variety of business, education, professional, word processing, entertainment and personal needs.

Hardware summary

System Unit

Size: Width–20", Depth–16", Height–5.5"

Weight: Without diskette drive–21 lbs., with one drive–25 lbs., with two drives–28 lbs.

User Memory: Cycle time–410 nanoseconds, Access time–250 nanoseconds

Memory: 40KB built-in read only memory (ROM), 16KB to 256KB user memory-sizes: 16KB, 32KB, 48KB, 64KB, 96KB, 128KB, 160KB, 192KB, 224KB and 256KB

Standard: Keyboard jack for keyboard attachment; cassette player jack for cassette attachment; five expansion slots for additional memory, display, printer, communications and game adapter; built-in speaker for musical programming; upper and lower case text; color/graphics capability; power-on automatic self-test of system components; BASIC Language Interpreter; 16KB user memory

Environment: Air temperature–60 to 90-degrees F System ON, 50 to 110-degrees System OFF; Humidity–8% to 80% System ON, 8% to 80% System OFF; Noise levels–59DB without printer, 66DB with printer; Electrical–120V.AC, 60 cycles, 200 watts

Diskette drives (optional): 5¼" dual density single-sided 160KB formatted capacity each diskette

Keyboard

Size: Width–20", Depth–8", Height–2"

Weight: 6 lbs.

Keys: 83 full-function keys for data and text entry, with tactile and audio feedback: includes 10 for numeric entry and cursor control and 10 special function keys for scrolling, editing, etc.; easy access to 256 characters (ASCII and Special); special "print screen key"

Keyboard: Adjustable typing angle, detached from system unit and connected by six-foot coiled cable for flexibility, all alphanumeric keys automatically repeat

IBM 80 CPS Matrix Printer

Size: Length–15.7", Depth–14.5", Height–4.3"

Weight: 12.5 pounds

Print capability: Up to 80 characters per second, 12 character styles, up to 132 characters per line. 9 x 9 character matrix

Electrical: 120V.AC, 60 cycles, 100 watts

IBM Monochrome Display

Size: Length–14.9", Depth–13.7", Height–11"

Weight: 17.3 pounds

Display capability: High-resolution, 25 lines of 80 characters each, upper and lower case, text character size 7 x 9 within a 9 x 14 box, green phosphor screen
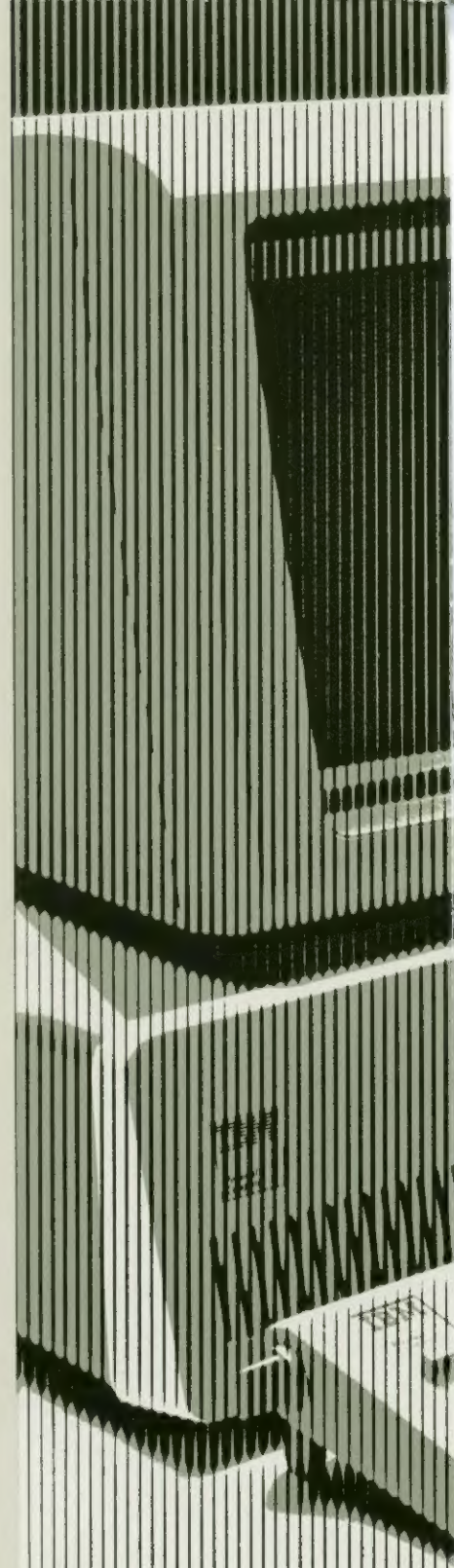
Highlighting choices: Underlining, blinking, reverse image, high-intensity; plus, non-display function for high-security data

Electrical: 120V.AC, 60 cycles, 40 watts (plugs into System Unit)

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